

Sub B.1
12. (New) Device for actuating a brake system to accomplish a brake assist function, comprising:

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a control unit damping effect or the counterforce of a brake pedal when a brake assist function is activated,

a sensor for sensing brake pedal travel,

means, coupled to said sensing means, for determining the vehicle deceleration which is to be effected by the brake system.

13. (New) Device as claimed in claim 12, wherein the counterforce is a function of the speed of brake pedal travel or the acceleration of application of the driver's foot for braking and is adjusted to a lower amount when the speed of application or the acceleration of application is high.

14. (New) Device as claimed in claim 12, wherein the counterforce is responsive to pedal travel and rises with an increasing actuating travel.

15. (New) Device as claimed in claim 12, wherein the damping effect depends on the speed of application or the acceleration of application of the driver's foot for braking and is adjusted to a lower amount when the speed of application and/or the acceleration of application is high.

16. (New) Device for actuating a brake system to accomplish a brake assist function, comprising:

a control unit for changing a brake force acting in the system as a function of an actuating travel sensed by a brake pedal sensor, an actuating speed or an acceleration of actuation of a brake pedal when the brake assist function is activated, and wherein the brake force acting in the system corresponds to a ratio between the determined actuating travel and a vehicle deceleration to be effected by the brake system.

17. (New) Device as claimed in claim 16, wherein the brake force acting in the system is augmented with a rising actuating travel, a rising actuating speed, or a rising acceleration of actuation.

18. (New) Device as claimed in claim 16, wherein the brake force acting in the system is reduced continuously to a normal brake force when the actuating travel decreases.

19. (New) Device for actuating a brake system to accomplish a brake assist function, comprising:

a control unit for reducing a damping effect or a counterforce of a brake pedal when the brake assist function is activated,

a sensor for detecting the resulting actuating travel of the brake pedal, wherein the control unit is coupled to the sensor for determining the vehicle deceleration to be effected by the brake system, and wherein the control unit changes a brake force acting in the system depending on the sensed actuating travel, an actuating speed or an acceleration of actuation of the brake pedal when the brake assist function is activated, the said brake force acting in the system corresponding to a ratio between the sensed actuating travel and the deceleration to be effected by the brake system.

20. (New) Method for actuating a brake system to accomplish a brake assist function, wherein a control unit executes the following steps:

reducing a damping effect or a counterforce of a brake pedal when the brake assist function is activated, and

taking into account the resulting actuating travel of the brake pedal which is sensed by way of a sensor of the brake pedal for determining the vehicle deceleration which is to be effected by the brake system.

21. (New) Method for actuating a brake system to accomplish a brake assist function, comprising the steps of:

changing a brake force acting in the system depending on: